

Plasma Physics and Astrophysics up to 2020 and beyond

In honor of Pierluigi Veltri's 70th birthday

7-8 October 2019

Università della Calabria, Rende, Italy

Conference program

Monday 7 October:

9:00 Welcome

Chair (F. Valentini)

- 10:00 *F. Pegoraro*: "Towards QED plasmas"
- 10:30 *G. Bertin*: "Globular clusters as weakly collisional stellar systems"

11:00 Coffee break

Chair (F. Pecora)

- 11:30 *A. Mangeney*: "Some remarks on the study of solar wind turbulence"
- 12:00 *A. Pouquet*: "A few issues around magnetic helicity in Hall-MHD"
- 12:30 *G. Einaudi*: "Coronal Loops Heating: Elementary Events Driven by Footpoints Shuffling"

Lunch break

Chair (S. Savaglio)

- 14:45 *A. Ferrari*: “Astrophysical jets and suprathermal particle acceleration”
- 15:15 *M. Messerotti*: “Plasma Diagnostics by Solar Radio Physics in Space Weather Applications”
- 15:45 *V. Antoni*: “Turbulence in plasmas: history of a successful collaboration”

16:15 Coffee break

Chair (F. Lepreti)

- 16:45 *G. Boffetta*: “Turbulence between two and three dimensions”
- 17:15 *E. Corbelli*: “Turbulence in the interstellar medium and the formation of stars”
- 17:45 *L. Sorriso-Valvo*: “Hall MHD local energy transfer in turbulent plasmas”

Open Discussion (moderator S. Servidio)

Tuesday 8 October:

Chair (L. Primavera)

- 9:00 *R. Grappin*: “Is the paradox of Dobrowolny Mangeney Veltri (1980) still a paradox ?”
- 9:30 *S. Atzeni*: “Laser-driven inertial confinement fusion and matter in stellar conditions”
- 10:00 *W. H. Matthaeus*: “Reynolds Number in Space Plasmas”

10:30 Coffee break

Chair (G. Zimbardo)

- 11:00 *M. Velli*: “Coronal Heating and Solar Wind Acceleration: Parker Solar Probe”
- 11:30 *P. Londrillo*: “Wandering around computational plasma physics”
- 12:00 *A. Misiano*: “Astronomy and its role in teaching and education” (in italian)

Lunch break

Oral Presentations and Final Remarks

- 14:30 *L. Del Zanna*: “General Relativistic MHD Models of thick accretion disks”
- 14:45 *A. Taktakshvili*: “Space Weather Modeling of NASA/GSFC Community Coordinated Modeling Center”
- 15:00 *K. Pommois*: “Hybrid kinetic-drift computations for weakly magnetized plasmas”
- 15:15 *C. Salem*: “Electric Field Turbulence between Ion and Electron Scales in the Solar Wind at 1AU”
- 15:30 *F. Feraco*: “Large-scale intermittency in stratified turbulent flows”
- 15:45 *M. Veranda*: “Features of relaxation events in current-carrying reversed-field pinches fusion plasmas”